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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,914	10/30/2003	Kazuaki Tashiro	03560.003021.1	5646
5514	7590 01/26/2005		EXAM	INER
FITZPATRI	CK CELLA HARPER &	HO, AL	HO, ALLEN C	
30 ROCKEFELLER PLAZA				
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER

2882
DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/695,914	TASHIRO ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Allen C. Ho	2882			
The MAILING DATE of this communi Period for Reply	ication appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum states are period for reply within the set or extended period for reply Any reply received by the Office later than three months at earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a reunication. D) days, a reply within the statutory minimum of thirt tutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) file	d on <u>30 October 2003</u> .				
2a) This action is FINAL. 2	This action is FINAL . 2b)⊠ This action is non-final.				
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) <u>20</u> is/are pending in the app 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>20</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restrice	e withdrawn from consideration.				
Application Papers					
9) The specification is objected to by the 10) The drawing(s) filed on 30 October 20 Applicant may not request that any object Replacement drawing sheet(s) including 11) The oath or declaration is objected to	003 is/are: a) ☐ accepted or b) ☑ oletion to the drawing(s) be held in abeyan the correction is required if the drawing(ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in A of the priority documents have been nal Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (P' 3) ☒ Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 102003.	TO-948) Paper No(s	nummary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 			

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

Paragraph [0108], line 6, "607" should be replaced by --6070--.

Appropriate correction is required.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, an imaging element that comprises a first planarization layer covering the external terminal and a second planarization layer on the first planarization layer must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. Figs. 10 and 11 show that the external terminal is covered by the second planarization layer.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the

Application/Control Number: 10/695,914 Page 3

Art Unit: 2882

renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement

Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the

drawing figures. If the changes are not accepted by the examiner, the applicant will be notified

and informed of any required corrective action in the next Office action. The objection to the

drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112: 3.

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode

contemplated by the inventor of carrying out his invention.

Claim 20 is rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which 4.

is not enabling. The step of forming a step in the first planarization layer is critical or essential to

the practice of the invention, but not included in the claim(s) is not enabled by the disclosure.

See In re Mayhew, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

Claim 20 recites the steps of forming a first planarization layer and a second planarization

on the first planarization layer. However, as disclosed by the applicants, the object of their

invention is to form a space in the planarization layer to accommodate the external terminal so

that a uniform scintillator could be formed (paragraphs [0009] - [0013]). Claim 20 fails to

include method steps that are considered essential to the practice of the invention. Therefore,

claim 20 is rejected as not being enabled.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Page 4

Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for 6.

omitting essential steps, such omission amounting to a gap between the steps. See MPEP

§ 2172.01. The omitted steps are: forming a first planarization layer on a plurality of imaging

elements; forming a step in the first planarization layer on each of the plurality of imaging

elements; disposing an external terminal on a side of the step opposite to a light receiving surface

of each of the imaging element; extending a lead connected to the external surface to the side

opposite to the light receiving surface of each of the imaging element through a space between

the adjacent imaging elements. Claims 20 claims a method of manufacturing a radiation imaging

apparatus. Accordingly, the critical features of the invention must be positively recited as

method steps.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United

States and was published under Article 21(2) of such treaty in the English language.

Claim 20 is rejected under 35 U.S.C. 102(e) as being anticipated by Kajiwara et al. (U.S. 8.

Patent No. 6,800,857 B2).

With regard to claim 20, Kajiwara et al. disclosed a method of manufacturing a radiation

imaging apparatus comprising: a plurality of imaging elements (1A) comprising each a plurality

via a adhesive layer (7).

of pixels (101) and an external terminal (5), wherein a lead (401) constituting the external terminal is extended to the side opposite to a light receiving surface each of the image element through a space between the adjacent imaging elements; comprising the following steps of: forming the first planarization layer (6) which covers the external terminal, on the light receiving surface and covering; forming the second planarization layer (2A) on the first planarization layer; and forming a substrate which a scintillator (3) is formed on the second planarization layer

Page 5

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Double Patenting

9. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Art Unit: 2882

B2.

10. Claim 20 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 10 of U.S. Patent No. 6,671,347 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 20 recites method steps that are obvious in view of claim 10 of U.S. Patent No. 6,671,347

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - (1) Hamamoto *et al.* (U. S. Patent No. 6,800,836 B2) disclosed a radiation imaging detector.
 - (2) Tashiro et al. (U. S. Patent No. 6,717,151 B2) disclosed a radiation imaging detector.
 - (3) Mochizuki et al. (U. S. Patent No. 5,777,335) disclosed a radiation imaging detector.
 - (4) Schick (U. S. Patent No. 5,434,418) disclosed an intra-oral sensor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2882

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

allen C Ho

Allen C. Ho Patent Examiner Art Unit 2882

21 January 2005